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by B. K. Gerling, L. K. Levskiy, L. I. Afanas'ev,  
4 pp.

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On the Formation of Mullite in an Usual Farm, by  
L. I. Kariakin, and O. M. Margulis, 5 pp.

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Kiparisova, L. D. and Popov, Yu. N.  
SUBDIVISION OF THE LOWER (SERIES OF THE)  
TRIASSIC SYSTEM (INTO STAGES) (Raschlenenie  
Nizhnego Otdela Tryasovoi Sistemy na Yarusy) tr. by  
Ivan Mittin. 1963 [14]p. 20 refs.  
Order from OTS, SLA, or ETC \$1.60 TT-63-19589

Trans. of Akademiya Nauk SSSR. Doklady, 1956,  
v. 109, no. 4, p. 842-845.

DESCRIPTORS: \*Paleontology, \*Stratigraphy,  
Geologic age determination, Geology,

(Earth Sciences--Geology, TT, v. 11, no. 1)

TT-63-19589

- I. Title: Triassic
- I. Kiparisova, L. D.
- II. Popov, Yu. N.
- III. Geological Survey,  
Denver, Colo.

Office of Technical Services

A New Mineral Saolianinovite, by L. K. Yakhontova,  
6 pp.

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SLA R 1603

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Jul 58

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of Rubber for Very Small Deformations by an  
Optical Modulation-Interference Method, by N. M.  
Borovitskaya, 3 pp.

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No 5, Jul-Aug 1956, pp 926-

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Vol I, No 4

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A New Method of Measuring the Velocity of  
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On the Theory of the Spontaneous Magnetization  
of Ferromagnetic Semiconductors at Low Temperature,  
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Sci - Phys  
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Short-Lived Isomers From Proton Bombardment,  
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Morozov, P. A. Yampol'skiy, 3 pp.

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Vol CIX, No 5, Jul-Aug 1956, pp 935-

Amer Inst of Phys  
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Vol I, No 4

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Organo-Phosphorus Insecticides. Some Analogues  
of O-O-Diethyl-S-2 (Ethyl-Thioethyl) Phosphorothio-  
lothionate (M-74) Less Toxic Towards Warm Blooded  
Animals, by M. I. Kabachnik, T. A. Mastryakova, Yu.  
M. Polikarpov, D. N. Paikin, N. P. Shabanova,  
N. M. Gampar, L. P. Efimova, 5 pp.

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Sci - Chemistry, Biology 55, 114  
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S-2130

Organophosphorus Insecticides. Some Analogues  
of O, O-Diethyl- -Ethylmercaptoethyldithio-  
phosphate (M-74), Less Toxic For the Warmblooded,  
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*to be done for new item*

Synthesis of Cycloserine, by N. K. Kochetkov,  
E. F. Kucherova, M. Ya. Karpaisky, V. M. Solovyev,  
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The Structure of the Equilibrium Diagrams of  
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Palatnik, A. I. Landau, 4 pp.

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Sci - Chem

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The Formation of Benzene Homologs and the Specific  
Role of the Surface in the Thermal-Catalytic Trans-  
formations of Isobutylene in the Presence of Boron  
Fluoride, by Ya. M. Pauskin, A. G. Khilzenrat, 4 pp.

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No 5, pp 958-961.  
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Equilibrium phase diagrams of the systems  $\text{NaCl}-\text{H}_2\text{O}$ ,  $\text{CaSO}_4-\text{H}_2\text{O}$ ,  $\text{CaSO}_4-\text{H}_2\text{O}$  and  $\text{SiO}_2$  (quartz)- $\text{H}_2\text{O}$ , by N. A. Styrikovich, I. Kh. Khaibullin, 4 pp.

RUSSIAN, three no per, Dok Ak Nauk SSSR, Vol. CIX, No 5, Jul/Aug 1956, pp 962-966.

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**EIA R-3387**

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**Aug 59**

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*Silica Gel and*

Study of the Reaction of Adsorbed Organic  
Molecules with the Acid Centers on the Surface  
of ~~Silica-Alumina~~ *Alumina* Gel by the Method of Infra-  
red Spectra, by V. N. Filimonov, A. N. Terenin,  
4 pp.

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Assoc Tech Serv 46H13R

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Band 8-70

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On the Stabilization of Bicalcium Silicate, by  
G. V. Kukolev et al.

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Co-Op Trans Sch Tr 354  
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<p>Trans. of Akademiya Nauk SSSR, Doklady 1956, v. 109, no. 6, p. 1098-1101.</p>	
<p>DESCRIPTORS: *Non-linear differential equations, *Partial differential equations, Theory, Equations.</p>	
<p>(Mathematics, TT, v. 6, no. 2)</p>	<p>169711</p>
	<p>Office of Technical Services</p>

Vvedenskaya, N. D.  
SOLUTION BY FINITE DIFFERENCES OF THE  
CAUCHY PROBLEM FOR NON-LINEAR EQUATIONS  
WITH DISCONTINUOUS INITIAL DATA [Resheniye  
Zadachi Koshi dlya Nelineynogo Uravneniya s  
Razryvnymi Nachal'nymi Dannymi Metodom Konech-  
nykh Raznostey]. [1961] 8p. 8 refs.  
Order from OTS or SLA \$1.10      61-14980

Trans. of 'Akademiya Nauk SSSR Doklady' 1956,  
v. 111 [no. 3] p. 517-520.  
Another translation is available from LC or SLA  
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(foreign text included).

DESCRIPTORS: Non-linear differential equations,  
Partial differential equations, Numerical methods  
and procedures.

(Mathematics, TT, v. 6, no. 2)

61-14980

I. Vvedenskaya, N. D.

169560

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Reflection and Transmission of 7-24  $\mu$ Waves by Silica  
Modifications, by N. A. Sevchenko, V. A. Florinskaya,  
4 pp.

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No 6, Jul-Aug 1956, pp 1115-1118.

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Sov phys "Doklady"  
Vol <sup>10</sup> I, No 4    STS 53-71018

Sci - Phys  
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Gamma Radiation From the Collisions of Fast  
Charged Pions With Nuclei, by A. G. Sitenko,

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Vol CIX, No 6, Jul-Aug 1956, pp 1119-

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Sci - Phys  
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pp 1123-1125.

Assoc Tech Serv - RJ-1059

Sci <sup>Gen</sup> Phys

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The Crystallisation of Supercooled Water Subject  
to Turbulent Mixing, by A. G. Kolesnikov, V. I.  
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The Action of Reduced Atmospheric Pressure and of  
Certain Gases Upon the Ticks Ornithodoros  
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Nov 50

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The Extraction of Niobium, Tantalum and Titanium  
Cupferrates, by I. F. alizarin, I. N. Gibalo, 4 pp.

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Method, by I. I. Kosolov, V. I. Sharov, E. N. Germanova  
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Thermal Stability of n-Paraffin Hydrocarbons Complexes with  
Urea, by L. M. Rosenberg, B. M. Veronoyeva, E. A.  
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RUSSIAN, Khimie-20 per, Dok Ak Nauk SSSR, Vol CLX,  
No 6, Jul/Aug 1956, pp 1144-1146.

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Sci - Chem

Doc 57

Shekhter, L. N., Myasnikov, I. A., and  
Pahezhetkii, S. Y.

CORRELATION BETWEEN THE CATALYTIC  
PROPERTIES OF ZINC OXIDE AND ZINC SULFIDE  
AND THEIR LUMINESCENCE. [1962] 6p. (4 figs.  
refs. omitted).

Order from OTS or SLA \$1.10

62-16578

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1956,  
v. 109, no. 6, p. 1163-1166.

DESCRIPTORS: \*Luminescence, \*Sulfides, Oxides,  
\*Zinc compounds, Catalysis, \*Semiconductors,  
Conductivity, Crystals.

Experimental data show the existence of a linear  
relationship between catalytic and luminescent prop-  
ties of zinc oxide. These data confirm previous hy-  
potheses on the nature of catalytic centers of zinc  
oxide (at least in the relationship of the studied re-  
(Physics--Solid State, TT, v. 8, no. 9)      (over)

62-16578

I. Shekhter, L. N.  
II. Myasnikov, I. A.  
III. Pahezhetkii, S. Y.

Office of Technical Services

(SF-1738)

Theory of Optimal Processes, by V. G. Boltyanskiy,  
R. V. Gamkrelidze, L. S. Pontryagin, 5 pp.

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pp 7-10.

JPRS 4645

TT-64-1-123

Sci - Phys

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Jun 61

Energy Distribution of Incoherent Radiation From  
Synchrotron Electrons, by Yu. M. Ado, P. A.  
Cherenkov, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys Sec, Vol  
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Equations With Variational Derivatives and Distribution Functions for Systems With Complex Interaction, by L. P. Bazarov, 4 pp.

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Vol I, No 5

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No 1, 1956, p 42-

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Sci - Physics  
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X-Ray Emission Spectra of Mn and Cu in a Heusler Alloy at Temperatures Around the Curie Point, by E. E. Vainshtein, B. I. Kotliar, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys Sec, Vol # CX, No 1, 1956, pp 44-

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Vol I, No 5

Sci - Physics  
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62-16671

Shuleikin, V. V.  
ANALYSIS OF MEASUREMENTS OF LARGEST WIND-  
CAUSED WAVES IN THE OCEAN (Analiz Izmerenii  
Predel'no Bol'shikh Vetroykh Voln v Okeane). [1962]  
[11]p. (foreign text included) 6 refs.  
Order from OTS or SLA \$1.60 62-16671

I. Shuleikin, V. V.

Trans. of Akademiya Nauk SSSR. Doklady, 1955,  
v. 110, no. 1, p. 53-56.

DESCRIPTIONS: Water waves, \*Ocean waves. Wave  
analysis. \*Wind. Turbulence. Meteorology, Oceanog-  
raphy, Marine meteorology. Measurement.

To determine the quantitative characteristics of wave-  
formation an analysis is made of the elements of the  
largest waves in the ocean on the basis of previous  
theoretical considerations (Akad. Nauk SSSR Doklady  
104: 397, 1955). (See also 61-27499)  
(Earth Sciences--Oceanography, TT, v. 9, no. 3)

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Embryogeny, by V. I. Kheisina, 6 pp.  
RUSSIAN, per, Dok Ak Nauk SSSR, Vol CX, No 1,  
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NIH 4-29-64

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Sci - Biol & Med  
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The Measurement of Diffusion Coefficients by  
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Vasil'yev, 4 pp.

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Low Temperature Recrystallization of Metals,  
by R. I. Garber, I. A. Gindin, V. S.  
Kogan, B. G. Lazaryev, 4 pp.

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Sci - Chem; Physics  
Jul 57

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CLH R-1756

Crystal Structure of Dibenzoylferrocene,  
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RUSSIAN, per, Dok Ak Nauk SSSR, Vol CX,  
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Sci - SM?M  
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Synthetic and Polymerization of Vinyl Derivatives of  
the Furan and Thiphene Series, by I. V. Andreyeva,  
M. M. Kotan, 4 pp.

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Catalytic Demethylation of  $\alpha$ -picoline to Pyridine  
Under the Action of Water Vapor, by A. A. Balandin,  
L. I. Sovalova, T. A. Slovokhotova, 5 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CX, No 1, 1956,  
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*Assoc Tech Sv 73H13R*

*SLA 61-20577*

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Sci - Chemistry  
Oct 57

Complex Compounds of Divalent Platinum With  
Aminobutyric Acid, by L. M. Volshtein, M. F.  
Mogilavkina, 4 p.p.

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RUSSIAN, thrice-no per, Dok Ak Nauk SSSR, Vol CX,  
No 1, Sep/Oct 1956, pp 83-86.

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Sci. - Chem

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Dec 57

Dehydrochlorination of Dichloroisopropyltrichlorosilanes  
and Methylation of Chloroisopropenyltrichlorosilanes,  
by A. D. Petrov, V. P. Mironov, V. G. Glukhovtsev,  
4 pp.

RUSSIAN, three-mo per, Dok Ak Nauk SSSR, Vol CX,  
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Sci - Chem

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New Derivatives of Disilenepropene, by A. V.  
Topchiev, N. S. Kamshin, T. I. Chorayshava,  
S. G. Durgoryan, 4 pp.

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Povarov, G. N.

TO THE MATHEMATICAL THEORY OF THE  
SYNTHESIS OF (1, k) TERMINAL SWITCHING  
NETWORKS. [1961] [6]p. 5 refs. MDF P-127.  
Order from OTS or SLA \$1.10      62-33210

Trans. of A[kademiya] N[auk] SSSR. Doklady, 1956,  
v. 110 no. 1, p. 102-104.

DESCRIPTORS: \*Switching circuits, Circuits,  
\*Electrical networks, Synthesis, Special functions,  
Theory.

Certain theorems on the construction of (1, k) -termi-  
nal switching networks are explained. These  
theorems permit the number of switches in (1, k)  
-terminal switching networks to be estimated for  
large k. (See also 62-11409) (Author)

(Engineering--Electrical, TT, v. 8, no. 10)

62-33210

I. Povarov, G. N.  
II. MDF P-127  
III. Friedman, Morris D., Inc.,  
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Boltyanskiy, V.G., Gamkrelidze, R. V., and  
Pontryagin, L. S.  
ON THE THEORY OF OPTIMUM PROCESSES, tr. by  
E. Lyssenko and G. F. Hill. 23 Dec 60 [7]p. 1 ref.  
ARGMA Trans, no. 111-60.  
Order from LC or SLAm: \$1.80, ph \$1.80 61-15814

Trans. from Akademiya Nauk SSSR, Doklady, 1956,  
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A general introduction is given to the study of optimum  
processes.

(Engineering--Electronic. TT, v. 5, no. 12)

61-15814

1. Control systems--Theory
2. Control systems--  
Mathematical analysis
1. Boltyanskiy, V. G.
- II. Gamkrelidze, R. V.
- III. Pontryagin, L. S.
- IV. AROMA Trans-111-60
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Missile Agency, Redstone  
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151931

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The Action of Radioactive Cobalt ( $CO^{60}$ ).  $\gamma$  - Radiation  
on Proteins and Amino Acids, by M. A. Khenokh and E.  
N. Lapinskaya.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CX, No 1, 1956,  
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Diamagnetic Resonance in Strongly Magnetic Bodies,  
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RUSSIAN, per, Doklady Akad. Nauk, USSR, Vol CX,  
No 2, 1956, pp 201-202.

S.L.A. Tr No R-329

Sci - Physics  
Apr 57

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*Amer Inst of Physics  
Council Register Dept  
100 1st St  
New York, NY*

Infrared Asymptotic Form of the Green's Function  
for Electrons to Order  $e^4$ , by L. D. Solov'ev, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys Sec, Vol CX,  
No 2, 1956, pp 293-

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Sov Phys "Doklady"  
Vol I, No 5

Sci - Physics  
Aug 57

Relation Between Electric Conductivity and  
Pressure for Polycrystalline Selenium at Pressures  
up to 30 000 atm, by P. T. Kozuyev, D. N.  
Zaslodov. UNCLASSIFIED

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CX, No 2,  
1956, pp 207, 208.

Sci Mus Lib 57/4308

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Sci - Chem  
Sep 58

Oxidation of Manganese Dissolved in Liquid  
Iron, by B. V. Linchevskiy, A. M. Samarin.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR,  
Vol CX, No 2, 1956, pp 209-211.

Henry Bratcher

Tr No 3893

\$2.50

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Sci - Chemistry; Min/Metals  
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The Simultaneous Determination of Oxygen and Halides (Chlorine, Bromine, and Iodine) in Organic Compounds, by M. O. Korshun, E. A. Boniarevskaya, 4 pp.

RUSSIAN, thrice-no par, Dok Ak Nauk SSSR, Vol CX, No 2, Sep/Oct 1956, pp 220-222.

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Sci - Chem

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Condensation of Aldehydes With Acetic Anhydride  
in the Presence of Boron Acetate, by V. K. Kuehov,  
4 pp.

RUSSIAN, per, Zhurnal, Dok Ak Nauk SSSR, Vol 101,  
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FRENCH from ~~XXXX~~ RUSSIAN, per, Dok Akad.Nauk SSSR,  
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Suitable at All Temperatures, by V. L. Ginzburg,  
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SLA TR R-678

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S.L.A. Tr R-423

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TF-62-28165

Bagotskaya, I.A.  
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FACE D'ÉLECTRODES POLARISÉES BAIGNANT DANS  
DES SOLUTIONS ALCALINES (Vosstanovitel'nye i  
Oksiditel'nye Svoistva Diffundiruyushchego Atomarnogo  
Vodoroda Na Poverkhnosti Poliarizovannogo Elektroda  
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included) refs. CNRS-VIII bis 402.  
Order from OIS, EIC or CNRS \$1.60      TF-62-28165

I. Bagotskaya, I.A.  
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Scientifique, Paris

Trans. in French of Matematika Nauk SSSR, Doklady,  
1956, v.116, no. 5, p. 397-400.

DESCRIPTORS: \*Electrodes, \*Polarization, Alkaline  
cells, Hydrogen, atoms, \*Oxidation, Iron, Diffusion,  
(Oxidation) reactions, DC, DC/AC.

(Chemistry--Physical, EE, v. 11, no. 8)

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SLA 60-10657

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SLA R-1351

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RUSSIAN, per, Doklady Ak Nauk SSSR, Vol CX, No 3,  
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Assoc Tech Sv  
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Aleksandrov, V. Ya. and Arronet, N. I.  
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EXTRACTION WITH GLYCEROL ("CELL MODEL")  
(Adenozintrifosfat Vyayvayet Dvizheniye Reanichek  
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Ekstraktsiyey ("Kletochnaya Model")). Apr 61 [6]p.  
12 refs. RTS 1792.  
Order from OTS or SLA \$1.10 61-19673

Trans. of Akademiy N[auk] SSSR, Doklady, 1956,  
v. 110, no. 3, p. 457-460.

DESCRIPTORS: \*Adenosine phosphates, \*Cells(Biology),  
Motion, \*Tissues(Biology)

(Biological Sciences--Biochemistry, TT, v. 6, no. 1)

61-19673

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SLA TT-65-64366

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Order from OTS or ETC \$0.80    63-26596

Trans. of Akademiya Nauk SSSR, Doklady [1956]  
v. 110, no. 4, p. 527-530.

DESCRIPTORS: \*Petroleum, \*Oils, Gases, Production, Viscosity, Analog systems, Determination.

(Materials--Fuels, TT, v. 10, no. 10)

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AFS RJ-1733  
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Sci - *Engr, Electron*  
Jul 59

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Reactions of Ethyl Alcohol on Aluminum Oxide by  
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CCT-508TT

61-17325  
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Sci  
Feb 60  
Vol 2, No 9

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ISOTOPIC EXCHANGE OF OXYGEN BETWEEN  
MINERAL OXIDES AND CO<sub>2</sub> AND THE USE OF  
ISOTOPIC EXCHANGE FOR DETERMINING THE EX-  
TENT OF THE ACTIVE SURFACE (Izotopnyi Obmen  
Kisloroda Mineralov-Oksidov s CO<sub>2</sub> i Ego Ispol'zovanie  
dlya Opredeleniya Velichiny Aktivnoi Poverkhnosti).  
[1962] [11]p. (foreign text included) 2 refs.  
Order from OTS or SLA \$1.60

62-14578

Trans. of Akademiya Nauk SSSR. Doklady, 1956,  
v. 110 (no. 4) p. 589-592.

DESCRIPTORS: \*Minerals, \*Oxides, \*Oxygen, \*Carbon  
dioxide, \*Exchange reactions, Radioactive isotopea,  
Isotopes, Powders, Temperature, Silicon compounds,  
Aluminum compounds, Manganese compounds, Iron  
compounds.  
(Nuclear Physics and Nuclear Chemistry, TT, v. 8,  
no. 5)

62-14578

I. Dontsova, E. I.

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Mairanovskii, S. G.  
POLAROGRAPHIC BEHAVIOR OF QUARTERNARY  
PYRIDINE SALTS, tr. by G. N. Kasachkoff and G. F.  
Hill. 30 Jan 62 [9]p. 16 refs. [AMC](Redstone)  
Traps-nr 7-62.  
Order from OTS or SLA \$1.10                      62-19000

Trans. of Akademiya Nauk SSSR, Doklady, 1956,  
v. 110, no. 4, p. 593-596.

DESCRIPTORS: \*Electrochemistry, \*Polarographic  
analysis, \*Pyridines, Pyridine derivatives, Lutidine,  
Salts, Chemical reactions, Electrolysis, Reduction,  
Catalysis, Mercury electrodes.

An investigation is made of the polarographic behavior  
of benzolsulfonate N-methylpyridine, iodides of  
N-ethylpyridine and N-isopropylpyridine, benzolsulfo-  
nates of N-methyl-p-picoline, N-methyl- $\alpha$ ,  $\alpha$ -lutidine,  
N-methyl- $\gamma$ -ethylpyridine and iodized N-isopropyl- $\alpha$ ,  
(Chemistry--Physical, TT, v. 9, no. 7)                      (over)

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Office of Technical Services

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GE-1

S. G. MOKRUSHIN, Yu. V. VARVAS

Electrophoresis of dispersed particles at the dividing surface  
between liquid and gas

Elektrophorese disperser Teilchen an der Flüssigkeit-Gas-  
Zwischenfläche

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TIL Tr 4818

Sci - Physics, Chemistry  
Jan 58

*56, 604*  
*SLA 59-22609*